

SpaceLogic KNX 4" Touch Unit MTN6215-0410

Technical Product Presentation





Agenda

SpaceLogic KNX 4" Touch Unit













Launch wave 1 (2023): DE, SE, NO, DK, FI, ES, PT, BE, NL, UAE, KSA, EG, TR, BR, AR, CL, BO, CO, EC, PE

- 1. Device overview
- 2. ETS Overview
- 3. ETS screen configuration concept
- 4. ETS switch, blind, dimming scene
- 5. ETS Tuneable white / RGBW
- 6. ETS Value display
- 7. ETS Loop and multiple operations
- 8. ETS HVAC functions
- 9. ETS Audio control
- 10. ETS General settings
- **<u>11. ETS Logic functions</u>**
- 12. ETS Scene module
- 13. Custom icons, backgrounds, screensaver



Back to ToC

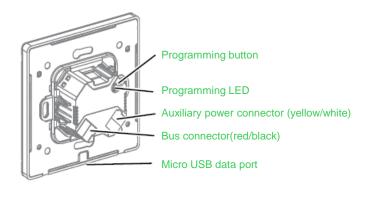
Device Overview

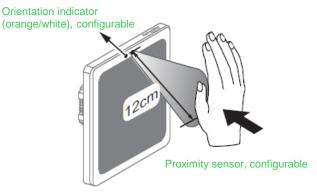
Life Is On Schneider

SpaceLogic KNX 4" Touch Unit

Overview Hardware

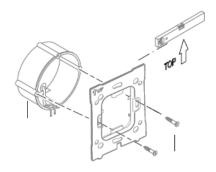
- 4 inch LCD Touch screen (10 cm)
- Resolution 480x480 pixels
- Frame-less (monoblock), black/grey, flush-mounted, 86 x 86 x 32 mm (wall height 9 mm)
- Power supply
 - KNX: DC 21-30 V, 3 mA (SELV)
 - Aux: DC 21-30 V, 85 mA (SELV)
- Proximity sensor and orientation-LED
- Temperature sensor
- Micro USB interface
 - · For uploading custom icons, backgrounds and screensaver





SpaceLogic KNX 4" Touch Unit Installation

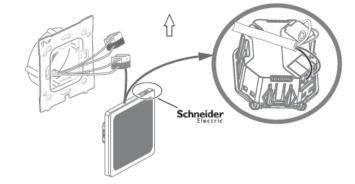
 Flush-mounted box, >35 mm depth, 60 mm between screws, Mount the fixing frame with the arrow pointing up



- KNX bus and aux. power can be supplied in the same bus cable (2x2x0.8 mm) Aux power via aux output of SpaceLogic KNX power supplies (or separate SELV power supply)
- 3. Snap-on the device on the fixing frame with the Schneider logo on the upper side







SpaceLogic KNX 4" Touch Unit Overview Software

- Up to 9 screens, change by left/right swipe
- 1-6 functions per screen, depending on function
- Room temperature controller, incl. fan-coil
- Show time/date as screen saver (local or from the bus)
- · Optional device access with PIN code
- Day/Night mode and orientation indicator
- Logic module
- Scene module

















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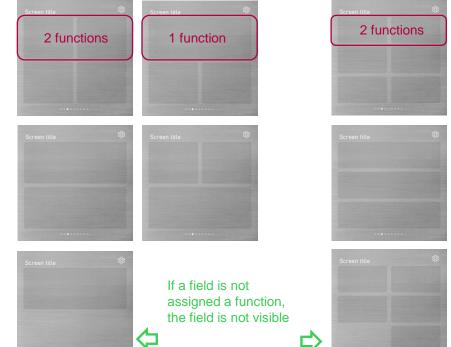
ETS - Screen configuration concept

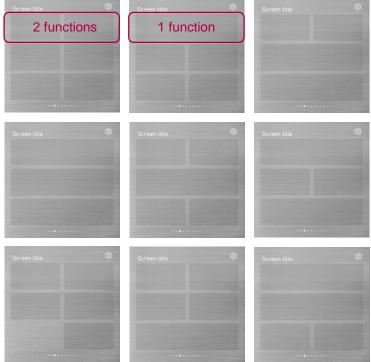


Configuration of a screen

Number of function icons 1, 4 or 6)







Configuration of a screen

Number of function icons 1, 4 or 6)

+ General settings	Number of function icons	1	+	General settings	Number of function icons	6	•
+ Screen settings	Screen name (Up to 6 Chinese characters or 15 – 20		+	Screen settings		\$	
- Express settings	English characters depend on input)		-	Express settings		1 2	
- Screen 1				- Screen 1			
Function 1				Function 1	Interface preview	3 4	
+ Screen 2				Function 3			
+ Screen 3				Function 4		5 6	
+ Screen 4				Function 5		•••••	
+ Screen 5				Function 6	lcon 1&2 set as	1 function 2 functions	
+ Screen 6				+ Screen 2	Icon 3&4 set as	1 function 2 functions	
+ Screen 7				+ Screen 3	Icon 5&6 set as	1 function 0 2 functions	
+ Screen 8				+ Screen 4	Screen name		
+ Screen 9				+ Screen 5	(Up to 6 Chinese characters or 15 – 20 English characters depend on input)		

Configuration of a screen

Function possibilities

Number of function icons	1	Number of fund	tion icons	4			Number of function icons	6
		lcon 1&2 set as		● 1 function ○ 2 functions			Icon 1&2 set as	1 function 2 functions
		Icon 3&4 set as	/	1 function 💿 2 functions			Icon 3&4 set as	1 function 2 functions
							Icon 5&6 set as	1 function () 2 functions
								Ŭ
No function	•	No function	•	No function	•	No function	•	No function 👻
No function	~	No function	~ ^	No function	~	No function	<i></i>	No function
Brightness dimming		Switch		Switch		Switch		Switch
RGB dimming		Brightness dimming		Scene		Brightness dimmir	ng	Scene
RGBW dimming		RGB dimming		Value output		Curtain step/move		Value output
Colour temperature dimming		RGBW dimming		Loop operation		Roller blind step/n	nove	Loop operation
Venetian blind position and slat		Colour temperature dimming		Multiple operation		Scene		Multiple operation
Air conditioner control panel		Curtain step/move		Weather information		Value output		Weather information
Room temperature control panel		Roller blind step/move		Energy monitoring		Loop operation		Energy monitoring
Ventilation control panel		Curtain position		Air quality display		Multiple operation	1	Air quality display
Audio control		Roller blind position				Weather informati	on	
		Venetian blind position and slat		1/4 of the screen		Energy monitoring	1	1/6 of the screen
Full screen		Scene						
		Value output				1/3 of the	screen	
		Loop operation						
		Multiple operation						
		Weather information		If "no function" is se	electe	ed there will	be no button displa	aved
		Energy monitoring						·
		Air conditioner control panel		For example, to have			in function on a scre	en:
		Room temperature control panel		- Number of function				
		Ventilation control panel		 Icon 1&2 and Icon 3 				
		Audio control		 For function 1 selec 				
			Ŷ	 For function 3 selec 	t "no f	function"		

1/2 of the screen

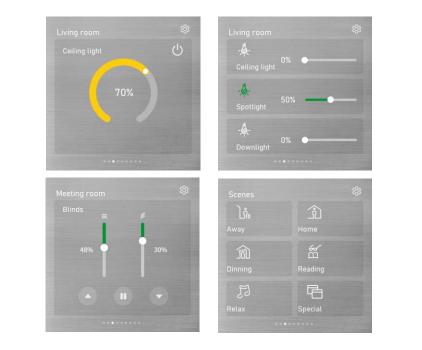
Back to ToC

ETS – Common functions (switch, blind, dimming, scene)



Overview

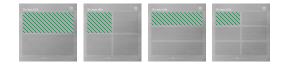
- Switch (Toggle)
- Value output
- Scene
- Brightness dimming
- Curtain/Roller shutter/Blind



Switch

+	General settings	Function	Switch 👻
+	Screen settings	Function name (Up to 6 Chinese characters or 10 – 20 English	
-	Express settings	characters depend on input)	*
-	Screen 1	Icon preview	-()- Ş
	Function 1	Function icon	Bulb
	Function 2	Colour of function icon indication when status	Green White
	Function 3	On	
	Function 4	Colour of function icon indication when status Off	Green 🔘 White

Name	Object Function	Length	Data Type	с	R	w	т	U
Screen 1 Function 1	Locking object	1 bit	enable	С	-	W	-	-
Screen 1 Function 1	Switch	1 bit	switch	C	-	-	Т	-
Screen 1 Function 1	Switch, status	1 bit	switch	С	-	W	Т	U

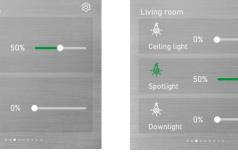


- Toggle function 1 bit
 - The switch object is synchronized by the Switch status object

Brightness dimming



- 1 bit Toggle on/off by the "power button"
- Dim by dragging or pressing on the slider, when the light is on



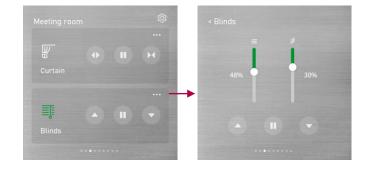
- 1 bit Toggle on/off by pressing anywhere except the slider
- Dim by dragging or pressing on the slider, also to switch on or off



Venetian blind/ Roller Shutter/ Curtain



- Venetian blind position and slats
 - 1 bit up/down and stop/step buttons
 - Stop button is toggling 0 and 1, but thanks to a configurable "pause for change od slat direction" it is possible to step the slats in the same direction
 - Sliders for control and position status



- Venetian blind position and slats, Roller blind position, Curtain position
 - 1 bit up/down (open/close) and stop/step buttons
 - Stop button is toggling 0 and 1, but due to a configurable "pause for change of slat direction" it is possible to step the slats in the same direction
 - Icon can indicate height = 0% / height > 0%
 - Positioning on a sub page (...), incl. slats if venetian blind



- Roller blind step/move, Curtain step/move
 - 1 bit up/down (open/close) and stop buttons
 - These functions option are also available for 1/2 screen

Back to ToC

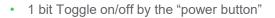
ETS – Tuneable White / RGB(W)

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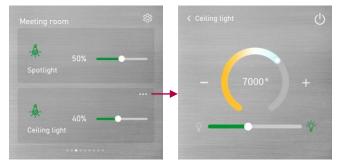
Tuneable white

Colour temperature dimming





- Dim by dragging or pressing on the slider, when the light is on
- Change colour temperature by dragging or pressing on the slider, or using +/- buttons, when the light is on



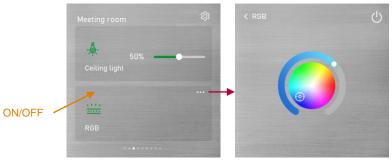
Sub-screen

- Control the light as a normal dimming function from the 1/2 screen
- Same possibilities as full screen via sub-screen (...)

RGB / RGBW RGB dimming



- 1 bit Toggle on/off by the "power button"
- Set colour with middle colour picker
- · Adjust colour brightness with outer slider
 - Black colour (0%) to the left
 - Max colour (100%) to the right



Sub-screen

- Control the ON/OFF from the 1/2 screen
- Same possibilities as full screen via sub-screen (...)

RGB / RGBW RGB dimming

creer	n 1 Function 1	Locking object	1 bit	enable	C - W	Screen 1 Function
Nam	-	Object Function	Length	Data Type	C R W T U	Name
+	Screen 4					
+	Screen 3	Object dataty	rpe	0 1x	3byte 🔵 3x1byte 🔪	
+	Screen 2	Colour of fun Off	ction icon indic	ation when status 🔵 Gr	een 🔘 White	
	Function 4	On		U Gr	een 🔵 White	
	Function 3	Colour of fun	ction icon indic	ation when status 🦱 🥿		
	Function 1	Function icor	1	Dimm	able bulb	•
-	Screen 1	Icon preview		- <u>A</u> -		
-	Express settings	characters de	pend on input)	s		
+	Screen settings		ese characters	or 10 – 20 English		
	General settings	Function		KGB C	limming	•

RGB value 3x(0..255)

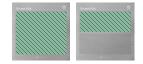
RGB value 3x(0..255)

switch

3 bytes

3 bytes

1 bit



- Switching, value dimming, colour temp
 - Only the half screen has an icon
- Two alternative data types are available

Name	Object Function	Length	Data Type	С	R	w	т	U
Screen 1 Function 1	Locking object	1 bit	enable	С	-	W	-	-
Screen 1 Function 1	Switch	1 bit	switch	С	-	-	Т	-
Screen 1 Function 1	Red dimming value	1 byte	percentage (0100%)	С	-	-	Т	-
Screen 1 Function 1	Green dimming value	1 byte	percentage (0100%)	С	-	-	Т	-
Screen 1 Function 1	Blue dimming value	1 byte	percentage (0100%)	С	-	-	Т	-
Screen 1 Function 1	Switch, status	1 bit	switch	С	-	W	Т	U
Screen 1 Function 1	Red brightness, status	1 byte	percentage (0100%)	С	-	W	Т	U
Screen 1 Function 1	Green brightness, status	1 byte	percentage (0100%)	С	-	W	Т	U
Screen 1 Function 1	Blue brightness, status	1 byte	percentage (0100%)	С	-	W	Т	U

RGB dimming value

RGB brightness, status

Switch, status

Screen 1 Function 1

Screen 1 Function 1

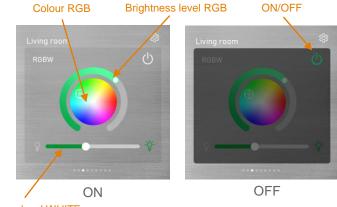
Screen 1 Function 1

С - - Т -

C - W T U

C - W T U

RGBW dimming





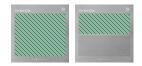
- 1 bit Toggle on/off by the "power button"
- Set colour with middle colour picker
- Adjust RGB brightness with outer slider
 - Black colour (0%) to the left
 - Max colour (100% to the right
- Adjust WHITE brightness with lower slider



- Control ON/OFF and WHITE brightness from the 1/2 screen
- Same possibilities as full screen via sub-screen (...)

RGBV dimming

+	Screen 4	Object datatype	1x6byte 4x1byte
+	Screen 3		
+	Screen 2	Colour of function icon indic	ation when status 🔵 Green 🔘 White
	Function 4	On	ation when status Green White
	Function 3	Colour of function icon indic	ation when status
	Function 1	Function icon	Dimmable bulb
-	Screen 1	Icon preview	-@-
-	Express settings	characters depend on input)	20
+	Screen settings	Function name (Up to 6 Chinese characters of characters depend on input)	-
+	General settings	Function	RGBW dimming



- Switching, RGB colour, White colour
 - Icon indicate switch status
 - Full screen doesn't have an icon

Datatypes

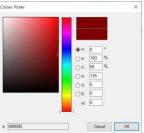
- 1x6byte: only one telegram to set colour sL/W4K support the format with colour picker
- 4x1byte: 1 byte per colour, up to 4 telegrams to set a colour. To use if receiver doesn't support 1x6byte.

Name	Object Function	Length	Data Type		с	R	w	тι	J	Name	Object Function	Length	Data Type	с	R	W	т	U
Screen 1 Function 1	Locking object	1 bit	enable	(-	W -	-		Screen 1 Function 1	Locking object	1 bit	enable	С	-	W	-	
Screen 1 Function 1	Switch	1 bit	switch	(- T	-		Screen 1 Function 1	Switch	1 bit	switch	С	-	-	Т	
Screen 1 Function 1	RGBW dimming value	6 bytes	RGBW value 4x(0100%)	(- T	-		Screen 1 Function 1	Red dimming value	1 byte	percentage (0100%)	С		-	Т	
Screen 1 Function 1	Switch, status	1 bit	switch	(WΤ	U		Screen 1 Function 1	Green dimming value	1 byte	percentage (0100%)	С	-	- '	Т	
Screen 1 Function 1	RGBW brightness, status	6 bytes	RGBW value 4x(0100%)	(WΤ	U		Screen 1 Function 1	Blue dimming value	1 byte	percentage (0100%)	С		-	Т	
										Screen 1 Function 1	White dimming value	1 byte	percentage (0100%)	С	-	- '	Т	
										Screen 1 Function 1	Switch, status	1 bit	switch	С	- 1	W	Т	J
										Screen 1 Function 1	Red brightness, status	1 byte	percentage (0100%)	С	- 1	W	Т	J
										Screen 1 Function 1	Green brightness, status	1 byte	percentage (0100%)	С	- 1	W	Т	J
Property of Schneider I	Electric Deco 29									Screen 1 Function 1	Blue brightness, status	1 byte	percentage (0100%)	С	- 1	W	Т	J
Froperty of Schneider I	Electric Fage 38									Screen 1 Function 1	White brightness, status	1 byte	percentage (0100%)	С	-	W	Т	J

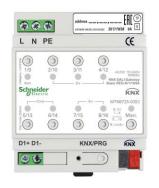
RGB / RGBW Use with DALI-gateways and DT-8

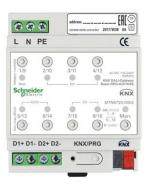
- The RGB / RGBW function is designed for a KNX LED controller
 - · The colour and brightness is controlled by the same property
 - If all LEDs are OFF, the status of the lamp is OFF, if any LED is ON, the lamp is ON
- In DALI, brightness/on-off state is separated from colour as "master"
 - Changing colour will not change the logical brightness and on/off-state
 - · When setting colour black (=all LEDs off) the logical state can still be ON
- Recommended settings in DALI-gateways
 - Switch-ON (1 bit) brightness value = 100% (because this value cannot be changed from Touch 4 with function RGB/W dimming)
 - · Do not control the DALI lamp by relative (4 bit) or absolute dimming (1 byte), from other sensors
 - Internal scene module:
 - Brightness level: 100%
 - Colour: select a colour that is representing the desired brightness value and colour For example, if 50% red in wanted, choose red 50%











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ETS – Value display

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Value display functions

Overview

- Air quality display
 - Internal or External temperature
 - Humidity
 - PM2.5
 - PM10
 - VOC
 - CO2
 - Brightness (Lux)
- Weather information
 - Wind speed
 - Rainy/Sunny (1 bit)
- Energy monitoring
 - kWh

			35 μq/m3
24			600
Brightness			
	88%		550
Humidity		<u>्</u> ढे. CO2	ppm



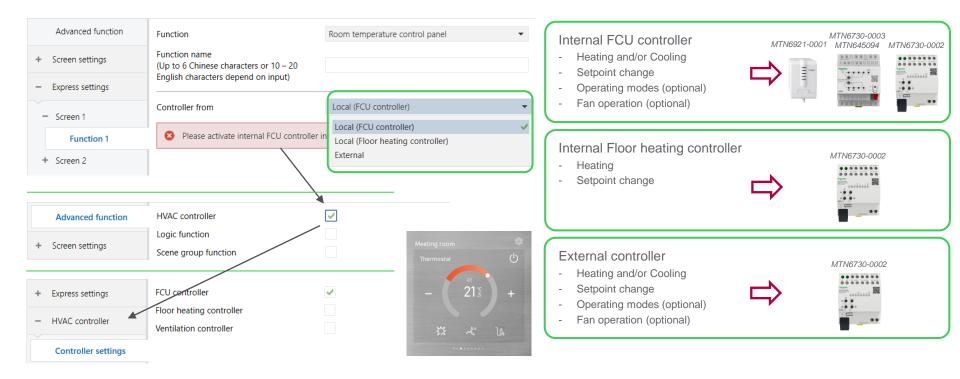
218 kWh
2674 kWh

Room temperature control panel & Internal temp measurement



Room temperature control panel

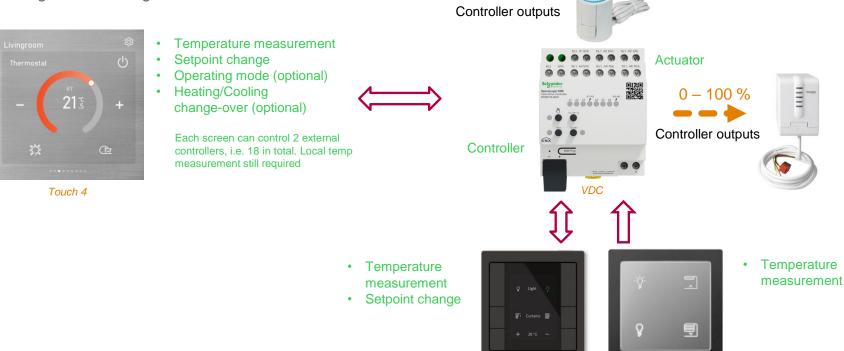
3 usages



Room temperature control panel

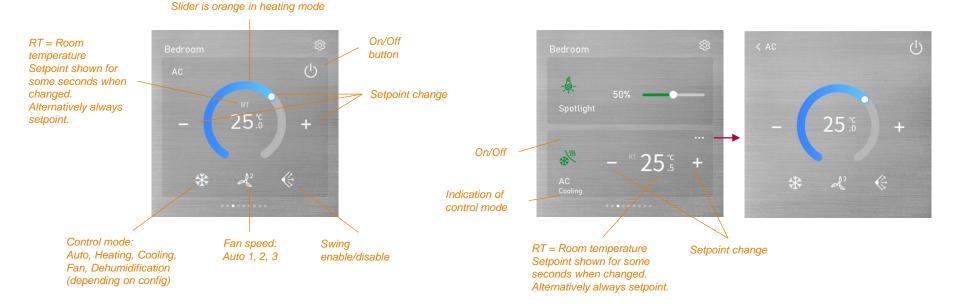
With External controller

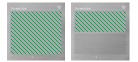
• Heating and/or cooling



Air conditioner control panel







Audio Control



Audio control panel

Overview

- On/Off
- Play/Pause
- Next previous track
- Volume
- Mute
- Repeat
- Random
- Track name (14 characters)

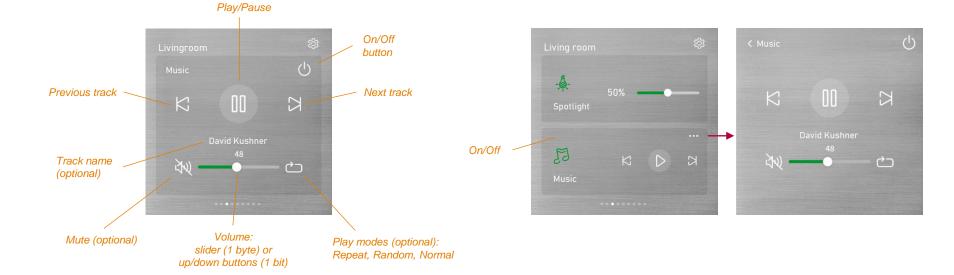
NOTE: Nogle funktioner kræver script, da datapunkter er forskellige

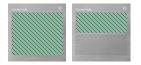




Audio control panel

ON state





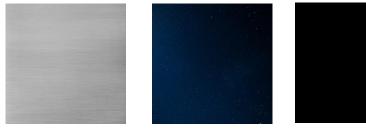
Back to ToC

Custom icons, backgrounds and screensaver



Custom icons, backgrounds and screensaver Overview

- Background pictures .
 - 3 backgrounds (Themes) which is selected in ETS or • in the settings menu directly on the device
 - Default: 1 (silver), 2 (blue) and 3 (black) •
 - They can be replaced individually ٠
 - NOTE: by replacing, the original is lost (no. 3 is easy to put back) •
- Screensaver •
 - One screensaver picture which can be replaced •
 - NOTE: by replacing, the original is lost •
- Custom icons with two states •
 - 30 custom icons can be added • each icon in two states, i.e. 60 pictures
 - Dedicated storage space, they are not replacing original icons •



1.png (brushed metal)

2.png (sky with stars)

SSS

01_W.png

(W = White, OFF icon)

3.png (solid black)



01 G.png (G = Green, ON-icon)

\$

Custom icons, backgrounds and screensaver Transfer files

- Plug-in the USB-stick using an OTG micro-USB to USB A adapter (not necessary to dismount the device)
- · After plug-in, the device show this message; confirm or cancel

External storage device doc detected, confirm import?storagePath:\backgroundAlbum path:\screensaverIcon path:\icon

• The device asks for a PIN code which is entered in ETS

- The device will then analyze the folders, file names and file size. If not correct an error message is shown.
- If correct, the device will ask to confirm or cancel each of the detected folders.
- The import is fast and easy



OTG micro-USB to USB A adapter

SpaceLogic KNX 4" Touch Unit Summary

- Up to 9 screens, change by left/right swipe
- 1-6 functions per screen, depending on function
- Room temperature controller, incl. fan-coil
- Show time/date as screen saver (local or from the bus)
- Optional device access with PIN code
- Day/Night mode and orientation indicator
- Logic module
- Scene module

